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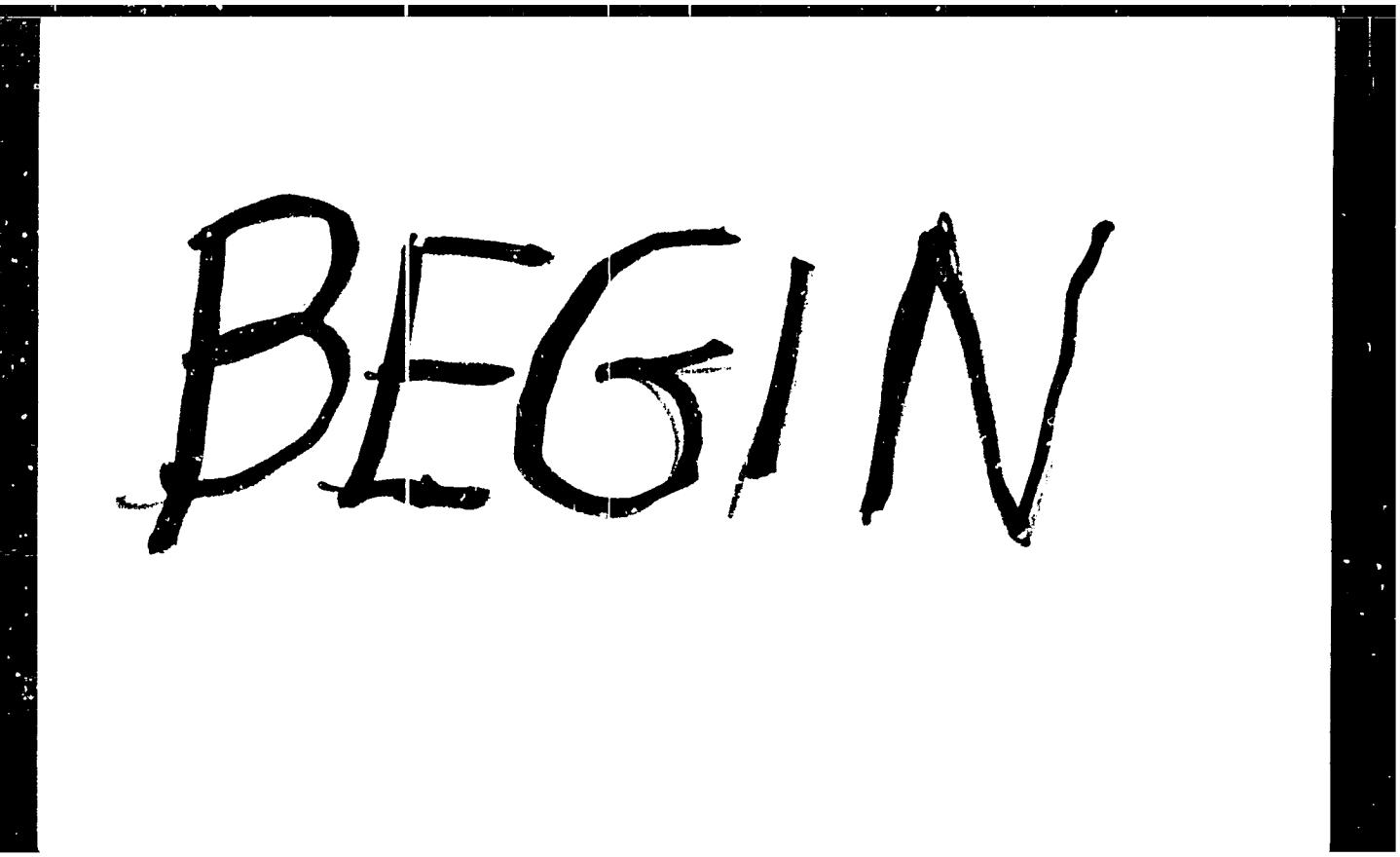

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REEL #47

BENDA, ANTONIN

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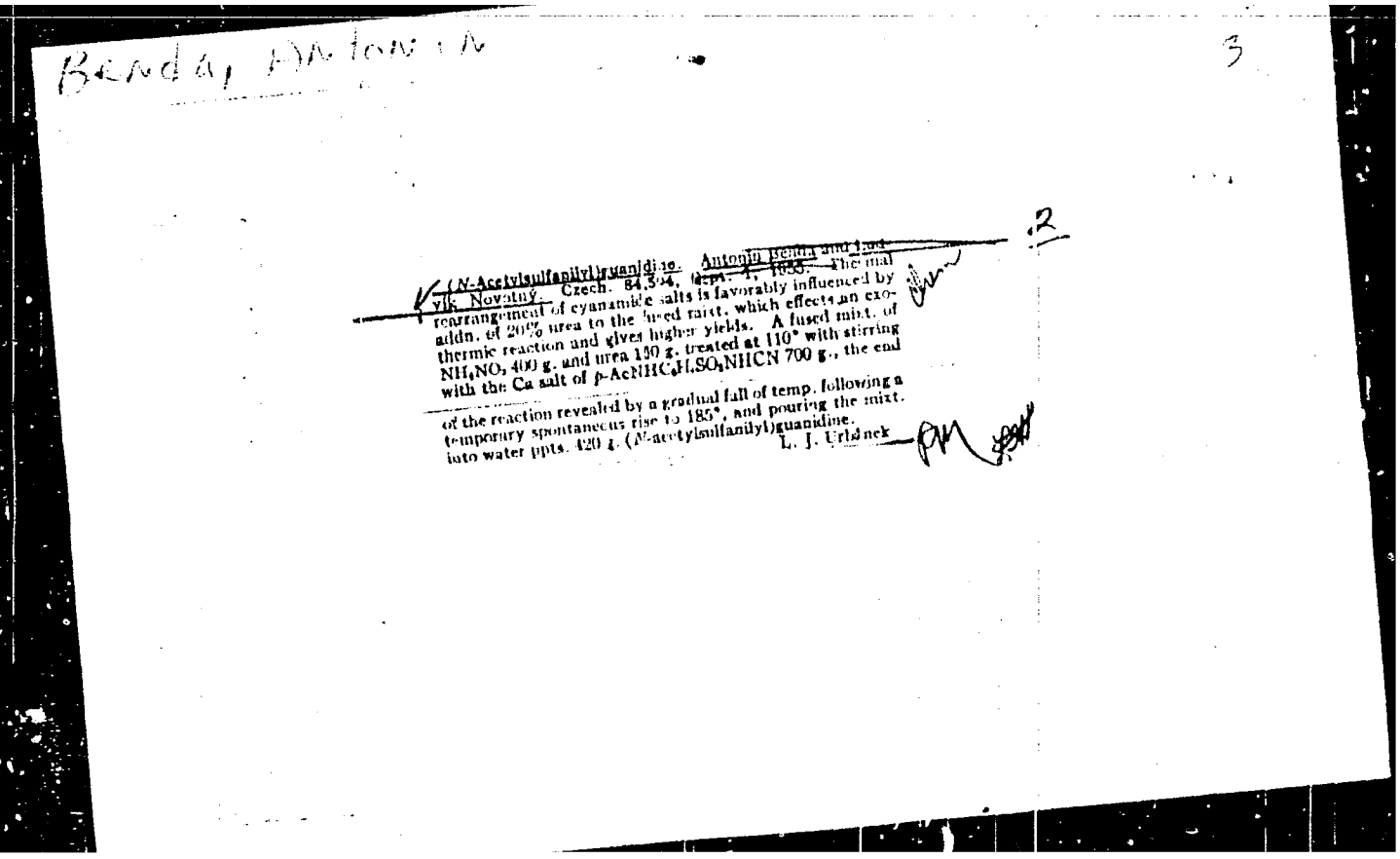

Bendal Division

3

2

(N-Acetylsulfanilyl)guanidine. Antonín Jedlička and Jiří Vlk. Novotný. Czech. 84,504, Sept. 1, 1955. Thermal rearrangement of cyanamide salts is favorably influenced by addn. of 20% urea to the fused mixt. which effects an exothermic reaction and gives higher yields. A fused mixt. of NH_4NO_3 400 g. and urea 150 g. treated at 110° with stirring with the Ca salt of p-AcNHC$_6$H$_4$SO$_2$NHCN 700 g., the end of the reaction revealed by a gradual fall of temp. following a temporary spontaneous rise to 185°, and pouring the mixt. into water ppts. 420 g. (N-acetylsulfanilyl)guanidine.

L. J. Urbánek

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

FUSKA, Jan, inz.; KUHR, Ivo, promovany chemik; BENDA, Antonin, inz.; IVANOV, Leonid

Use of sugar-beet molasses for the fermentation of penicillin.
Chem zvesti 17 no.8:533-541 '63.

1. Biotika, n.p., Slovenska Lupca.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, F., Aspirant

"A Theoretical and Experimental Investigation of the Damping System of a Salient-Pole Synchronous Machine." Cand Tech Sci, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, 3[illegible] Dec 54. (V[illegible], 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, B.

Some remarks on the planning and organization of scientific work at the technical universities.

p. 130
Vol. 5, no. 3, 1955
ZA SOCIALISTICKOU VEDU A TECHNIKU
Praha, Czechoslovakia

Source: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, no. 2 February 1956, Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, B.

Special training school for electrical engineers in the USSR, p. 331, ZA SOCIALISTICKO VEDU A TECHNIKU (Pripravny vybor vedeckych technickch spolecnosti pri ceskoslovenski adademii ved) Praha, Vol. 5, No. 7, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congres, Vol. 4, No. 12, December 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

Benda, B.

Additional losses in turboalternators. p. 199. ELEKTROTECHNICKY OBZOR. (Ministerstvo strojirenstvi a Ministerstvo paliv a energetiky) Praha. Vol. 45, no. 4, Apr. 1956

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, B.

"Economic evaluation of turboalternators."

p. 513 (Elektrotechnicky Obzor) Vol. 46, no. 10, Oct. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, B.

"Basic technical problems and developmental trends in the construction of electric machinery in the Soviet Union."

p. 561 (Energetika) Vol. 7, no. 11, Nov. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Bratislav, inz., kandidat technickych ved

Design of sets of large synchronous and asynchronous motors. El tech obzor 51 no. [illegible] 441-450 S '62.

1. Ceskomoravsko-Kolben-Danek Praha, n.p.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Bretislav, inz., kandidat technickych ved.

Development of hydroalternators in Ceskomoravska-Kolben-Danek National Enterprise. El tech obzor 50 no.10:552-559 O '61.

1. Ceskomoravska-Kolben-Danek Praha, n.p.

(Dynamos)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Evzen, inz., arch.

Five years since the building of the Perina community started.
Poz stavby 10 no.12:626-630 D '62.

1. Vyzkumny ustav vystavby a architektury, Praha.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, F.

TECHNOLOGY

Periodical: ZELEZNICAR. No. 12, Dec. 1958.

BENDA, F. Increasing the output of railroad repair shops. p. 5.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

SYKORA, O.; BENDA, F.

Sudden blindness in an infant. Cesk. pediat. 13 no.9:819-822 5 Oct 58.

1. Detske oddeleni OUNZ v Ceske Lipe, prednosta primar dr. K. Vlasak Ocni oddeleni OUNZ v Ceske Lipe, prednosta dr. Frant. Benda O. S. Dobrichovice, Anglicka 319.

(BLINDNESS, in inf. & child
sudden blindness caused by bilateral inflamm. of optic tract, case report (Cz))
(OPTIC TRACTS, dis.
bilateral inflamm. causing sudden blindness in inf., case report (Cz))

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

S/089/60/009/006/007/011
B102/B212

21,2000 also 153P

AUTHORS: Petukhov, V. A., Zabaneh, I., Zhuravlev, A. A., Yarmukh, M.,
Kalov, V. I., Myae, E. A., Obukhov, Yu. L., Sokolov, Y.,
Fainak, Yu., Benda, F., Babiash, I., Marek, M., Pacetko, P.,
Svetov, E. V.

TITLE: The model of the ring proton synchrotron

PERIODICAL: Atomnaya energiya, v. 9, no. 6, 1960, 491-495

TEXT: The ring proton synchrotron which is a powerful focusing accelerator with a magnetic field constant with respect to time, was suggested in 1955 by A. A. Kolomenskiy, V. A. Petukhov, and M.S. Rabinovich and, independently of them, in 1957 by Symon (Physics, 31, 1152 (1955)). The new device seems to be able to produce very intensive accelerated particle beams. A model of this ring synchrotron (with radial variation has been constructed in the Objedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). The electromagnet consists of eight elements arranged periodically, each of which has a direct and an inverse sector; it also has two straight sections. The azimuthal

Card 1/3

22447

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B102/B212

The model of the ring...

dimension of the first sector, which forms the base in radial direction, is 22°30', and that of the inverse sector, which bends about to vertical focusing, is 7°30'. The inverse sectors cause the azimuthal periodicity of the ring synchrotron to be higher than that of a standard strongly focusing accelerator. The ratio of the radial radius of the orbit to the minimum radius of curvature is approximately equal to 3. The coils generating the field are arranged such that the magnetic field increases with the radius of the orbit according to $B = B_0(r/r_0)^k$, i.e., it increases from 42 oe at R = 35 cm to 340 oe at R = 55 cm. The magnet exhibits the characteristic that the gap between its poles increases in proportion to the gap radius. Therefore, the vertical dimension of the working area will also change from 2 to 4 cm. The increase of the geometrical dimensions of the sectors and the constancy of the field index k (the field index of the model is equal to 4) bring about a dynamic similarity of the orbit, and the frequency of the free oscillations will also be constant. The number of betatron oscillations per circulation may be varied from 1 to 4 in the vertical direction, and from 2.5 to 3.5 in the radial direction. The model is, suitably suited for

Card 2/3

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The model of the ring...

electron acceleration; the injection (of 20-40 kev electrons) may be done continuously or in a pulsed manner. The acceleration is done with an electric rotational field having a voltage of 10 to 20 v per circulation and a frequency of 450-500 cps. The first test results obtained from this unit showed that it is very sensitive with regard to the accuracy of collection and the stability of the principal magnetic characteristics. There are 2 figures and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The two references to Ref.: Symon, Sessler, Phys.Rev., 103, 1152 (1956); E. Symon, Phys.Rev., 20, 1152 (1955); F. Cuneo, Rev.Scient.Instrum., 31, 100 (1958).

SUBMITTED: May 24, 1960

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

28780
S/057/61/031/010/013/015
B111/B112

24.6[illegible]

AUTHORS: Benda, F., Gabanska, I., Dobiash, I., Zhuravlev, A. A., Karmasin, M., Kotov, V. I., Marek, M., Myae, E. A., Obukhov, Yu. L., Petukhov, V. A., Svetov, L. V., Sokhor, V., Fukatko, T., and Tsirak, Yu.

TITLE: Annular proton synchrotron with radial sectors

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 10, 196[illegible] 1253-126[illegible]

TEXT: This article describes the model of an annular proton synchrotron with radial sectors, built and put into operation at the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Technical data:

Number of periodicity elements	2
Azimuthal dimensions of a direct sector	220[illegible]
Azimuthal dimensions of an inverse sector	70[illegible]
Azimuthal dimensions of the gap	[illegible]30
amplification factor	[illegible] 3
Initial radius	35 cm

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2570
S/057/61/[illegible]
B111/B1[illegible]

Annular proton synchrotron with ..

Final radius
Vertical dimension of the chamber for the initial radius
Coefficient k for which $H = H_o (r/r_o)^k f(\Theta)$
Field strength in the initial radius
Field strength in the final radius
Injection energy
Critical energy (total)
Final energy (total)

The frequencies of free particle oscillations were found to b[illegible] ν_x and $\nu_z \cong 1.8$, which are lower than the theoretical value[illegible] can also be used for studying the behavior of the particle beam and its accumulation. A cross-sectional view of the electromagnet is shown in Fig. 1. A pressure of $1 - 2 \cdot 10^{-6}$ mm Hg prevailed in the vacuum chamber. The injection system is designed both for pulsed and continuous operation Acceleration is effected by an electric rotating field of 50[illegible] cps and 10 - 25 v per revolution. A special "speed up" system (rotating field of 600 v per revolution) serves for improving the electron-capture efficiency.
Card 2/5

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28789

S/057/61/ [illegible] 3/013/015
B111/B112

Annular proton synchrotron wi[illegible] ..

The pulse, which is excessively increased by the "speed up" process, is reduced by a thyratron circuit. A constant value of k could be attained with a theoretically calculated arrangement of the field coils along the ideal orbit. In addition to the principal coils, a coil was placed at the yoke of each sector, by which the influence of the iron resistance was eliminated. k and the azimuthal field distribution were measured with induction coils and a ballistic galvanometer. With a few exceptions, the values of k agreed with theoretical values to within ±1%. The azimuthal inhomogeneity of the field was never greater than ±1%. The position of the magnetic surfaces was determined with Permalloy feelers with an error of 0.2 mm. The deviation from the theoretical values was never greater than 0.5 mm. The indication of the beam during the first revolutions (without acceleration) was carried out with screens and coordinate nets in the chamber, and later (with acceleration) with photomultipliers equipped with radially adjustable sets of targets. The measurements showed that the field is strongly affected by the induction and 'speed-up' core (e.g., azimuthal inhomogeneity). It was found that under optimum conditions, the upward deviation of the beam from the center of the chamber did not exceed ±4 mm, and that the deviation of the equilibrium

Card 3/5

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Annular proton synchrotron with [illegible]

orbits at one and the same point of the magnetic field was [illegible] per revolution. It is noted that this model can be used to study [illegible] with free oscillations, electron capture into a betatron [illegible], and accumulation of accelerated particles. Yu. A. [illegible] and R. N. Fedorov are thanked for assistance. There are [illegible] table, 9 references: 4 Soviet and 5 non-Soviet. The [illegible] references to English-language publications read as follows: [illegible] T. Ohkawa, Rev. Sci. Instr., 29, 108, 1958. Ref 8: F. T. [illegible] Rev. Sci. Instr., 28, 403, 1957. Ref 9: K. M. Terwilliger [illegible] Sci. Instr., 28, 967, 1957.

SUBMITTED: December 6, 1960

Fig. 1: Cross-sectional view of electromagnet and vacuum chamber. Legend: (1) magnet; (2) chamber; (3) principal coils of magnet; (4) yoke coils.

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25650
S/089/61/000/004/005/005
B230/B305

21.3100 also 2406, 2606

AUTHORS: Petukhov, V.A., Habanec, J., Zhuravlev, A.A., Hermann, M., Kotov, V.J., Mrac, E.A., Obukhov, J.L., Sochor, V., Cirok, J., Heinz, F., Dobiáš, J., Marek, M., Fukáč, T., Svetov, L. V.

TITLE: A model of an annular cyclotron

PERIODICAL: Jaderná energie, no. 4, 1961, 136 - 137

TEXT: This is a translation of an Russian article entitled "Model' kol'tsevogo fazotrona" (Model of an Annular Cyclotron) originally published in the Soviet periodical "Atomnaya energiya", 9, (1960), no. 12, pp. 491-493. It deals with the model of an annular cyclotron which is a fixed-field, alternating-gradient accelerator, built by Soviet and Czechoslovak physicists at the United Institute of Nuclear Research in Dubna. The proposal for an annular cyclotron was made for the first time in 1953 by A.A. Kolomenskiy, V.A. Petukhov and M.S. Rabinovich (Ref 1: Nekotoryye voprosy teorii tsiklicheskikh uskoriteley(Some Problems of the Theory of Cyclic Accelerators), AN SSSR, 1955; Pribory i tekhnika eksperimenta (1956), no. 2, p. 28). The elec-

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A model of an annular cyclotron

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D238/D305

tromagnet of the accelerator consists of eight similar, alternately reserved parts, each of which has two sectors with opposite orientation of the magnetic field, and two straight sections. The accelerator is used for electron acceleration. Electrons with energies of 20-40 kev can be injected either continuously or in pulses. Using a combination of eddy and radio-frequency fields, a beam energy up to 2MEV can be obtained with this model. Preliminary results obtained during test runs have shown the high accuracy of the machine and the great stability of its principal magnetic characteristics. Also, in agreement with the theory, a number of various resonances were observed which have a substantial influence on the intensity of the accelerated beam. There are 2 figures and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: K. Symon, Phys. Rev. 98 (1952), 1152; T. Okhawa, Rev. Scient. Instrum. 29, (1958), 108.

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JEFR[illegible]V, D.V.; [illegible], M.G.; [illegible], A.L.; [illegible], V.P.; [illegible], P.P.; [illegible], V.S.; [illegible], F.G.; [illegible], I.F.; [illegible], M.G.; [illegible], I.Ch.; [illegible], B.I.; [illegible], N.V.; [illegible], Frantisek [translator]

The six meter synchrocyclotron of the Institute for Research on Nuclear Problems affiliated to the Academy of Sciences of Soviet Union. Jaderna energie 3 no.1:1-4 Ja '57.

1. Ustav jaderne fysiky (for Benda).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

KLOS, J.; BENDA, I.; KOPECKIJ, L.

Use of contralateral rhinomanometry for the determination of nasal patency in children. Cesk. pediat. 17 no.5/6:412-415 Je '62.

1. Katedra detske otorinolaryngologie fakulty detskeho lekarstvi University Karlovy v Praze, prozatimni vedouci MUDr. J. Klos.

(NOSE physiol)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

SCHEE, J.; BENDA, J.

Results of combined Carlsbad treatment in gastric dyspepsia.
Cesk. gastroent. vyz. 17 no.6:321-336 S '63.

1. Lazenska sanatoria Imperial v Karlovych Varech, reditel MUDr. J. Hanycz.
(DYSPEPSIA) (GASTRIC JUICE) (UROPEPSIN)
(MUCOPROTEINS) (BLOOD CHEMICAL ANALYSIS)
(MINERALS) (URINE) (MINERAL WATERS)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

VICHEREK, Oldrich, inz.; VOTAVA, Vladimir, inz.; BENDA, Jiri

Complex automation of condensing electric power plants. Energetika 12 no.1:21-27 Ja '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

CZECHOSLOVAKIA/Optics - Physical Optics K-9

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1922

Author : Bocle Jiri
Inst : -
Title : Adjustment of Polarization Apparatus for the Investigation of Photoelasticity

Orig Pub : Sbor. Vysokeho uceni techn. Brno, 1957, No 4, 373-374

Abstract : Description of means used to adjust the polarizer and analyzer on the same axis in order to obtain identical positions of the planes of polarization of the filters.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, J.

"The Grassland Crop Rotation System and Its Role in Ensuring the Basic Supply of Feeding Stuffs." p. 4. (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 4, no. 1, Jan. 1954, Praha, Czechoslovakia)

So: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

DENMARK.

CZECH

Ensiling fresh green fodder with wooden boards. F. Isajev and J. Bendr (Výzkumný ústav živočišné výroby ČSAZV, Uhříněves). *Sborn. Československé Akad. Zemědělské, Vědy* 27B, 539-50(1954).—In 1950-53 expts. were carried out in ensiling fresh green fodder corn used alone and alfalfa-grass mixt., for a short period of time, in towers and domes made with wooden boards which can be taken apart. The nutritive values of the silages was satisfactory, and ensiling of this type is recommended for excessive fodder in spring, summer, and fall. Ensiling in the open without boards showed great losses in nutrients. Jan Mišík

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, J.

Character of the agricultural production in mountainous regions and adjacent areas in the Czech districts. p. 396. (VESTNIK, Vol. 4, No. 7/8, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, Dec 1957. Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

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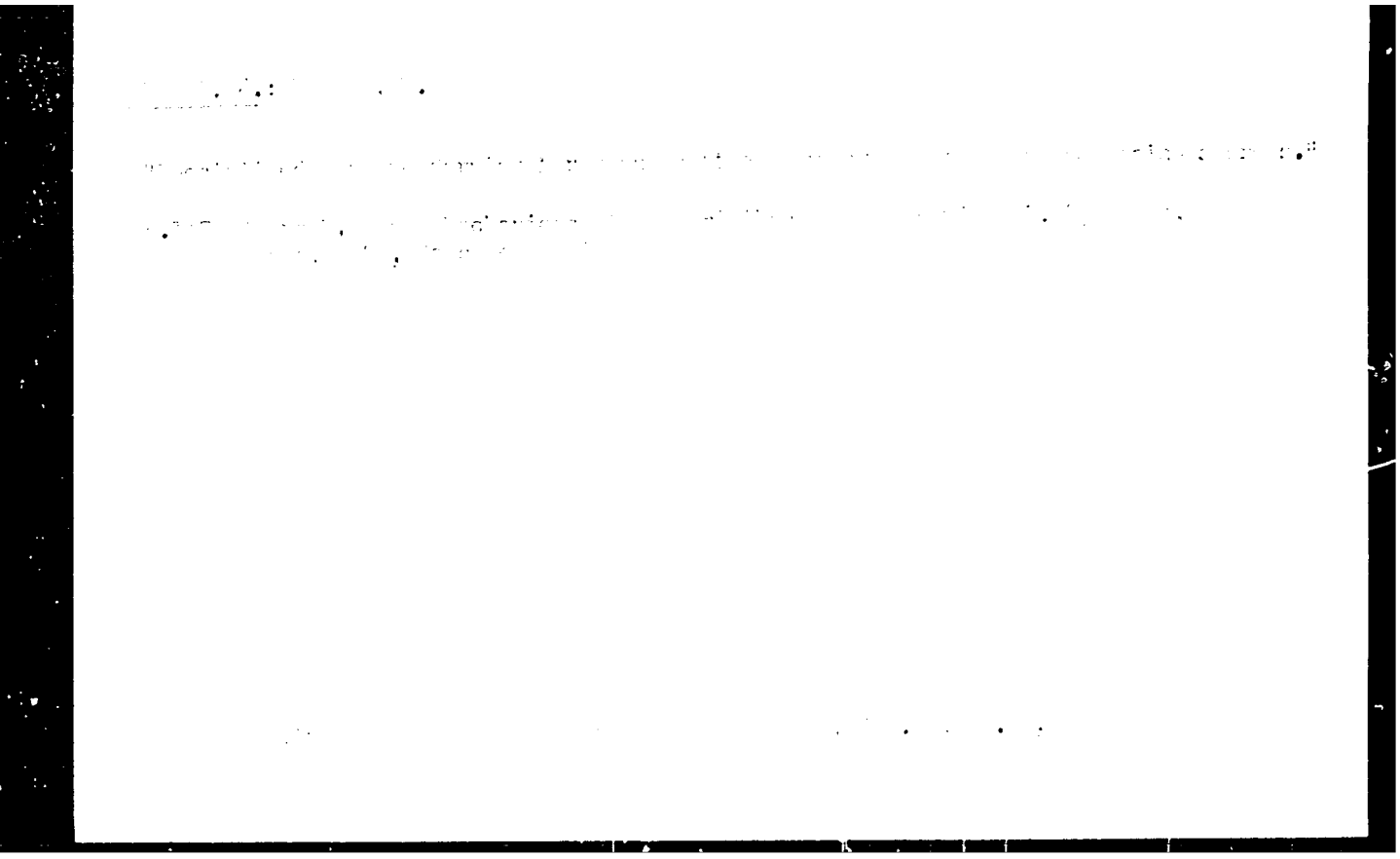

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

KLOS,J.; BENDA,J.; KOPECKIJ,L.; COPOVA,M.

Effect of surgical correction of a deformed nasal septum on pathological changes in the respiratory tract. Cesk. pediat. 19 no.4:349-353 Ap'64.

1. Katedra detske otolaryngologie fakulty detskeho lekarstvi KU v Praze (zast. vedouci: doc.dr.J.Klos,CSc.) a II. detska klinika fakulty detskeho lekarstvi KU v Praze (prednosta: prof.dr.J.Houstek, DrSc.).

*

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

REHDA, JOSEF, ed.

Zajisteni krmivove zakladny J/D. (1. vyd.)
Praha, Statni zemedelske nakl., 1954. 203 p.

SOURCE: EEAL - LC Vol. 5 No. 10 Oct. 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Josef

Activities and working methods of the Institute for Scientific System of Management of the Czechoslovak Academy of Agricultural Sciences. Vestnik CSAZV 8 no.7:378-379 '61.

1. Dopisujici clen Ceskoslovenski akademie zemedelskych ved; reditel Ustavu pro vedeckou soustavu hospodareni Ceskoslovenske akademie zemedelskych ved, Praha.

(Czechoslovakia--Agriculture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

STEJSKAL, Jan; PLESNIK, Jan; HRUSKA, Ladislav; SVOBODA, Jaroslav; NAJMR, Stanislav; PREININGER, Miroslav; HAUNER, Frantisek; BENDA, Josef, inz.; KRAJCOVIC, Vladimir; VLCEK, Kvetoslav; KRBLICH, Jar; CERNY, Ladislav, Dr.; DVORACEK, Miroslav, inz. dr.; CHYTRA, Frantisek, inz.; FOLTYN, Jiri; VYSKOT, Miroslav; STAMBERA, Jaroslav, C.Sc. Doc. Inz.; KOSIL, Vladimir; STUCHLIK, Jaroslav, Inz.; NAKLADAL, Jaroslav, Inz.; RICHTER, Lev, MVDr.

Statements of directors of institutes, and of managers of workplaces of the Czechoslovak Academy of Agricultural Sciences. Vestnik CSAZV 8 no.8/9:496-531 '61.

1. Dopisujici clen Ceskoslovenske akademie zemedelskych ved (for Stejskal, Plesnik, Hruska, Svoboda, Najmr, Preininger, Hauner, Benda, Krajcovic, Krblich, Dvoracek, Foltyn, Vyskot, Kosil) 2. Clen redakcni rady Vestniku Ceskoslovenske akademie zemedelskych ved (for Plesnik, Preininger, Foltyn, Vyskot) 3. Reditel Vyzkumneho ustavu zivocisne vyroby Ceskoslovenske akademie zemedelskych ved v Uhrinevsi (for Dvoracek) 4. Reditel Ustavu pro vedeckou soustavu hospodareni Ceskoslovenske akademie zemedelskych ved v Praze (for Benda)

(Czechoslovakia--Agriculture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

KOPECKIJ, L.; BENDA, J.

On the problem of tonsillectomy in children. Cesk. ped. 20 no.12: 1090-1091 D '65.

1. Katedra detske otolaryngologie fakulty detskeho lekarstvi Karlovy Universit[illegible] v [illegible]raze (vedouci - doc. dr. J. Klos, CSc.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Kalman

"Talleyrand" by E. Tarle. Reviewed by Kalman Benda.
Elet tud 15 no.5:142 31 Ja '60.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Kalman

Hungarian Jacobins. Elet tud 15 no.21:643-646 22 My '60.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Kalman, a tortenelemtudomany kandidatusa, tudomanyos munkatars; MAKKAI, Laszlo, a tortenelemtudomany kandidatusa, tudomanyos munkatars; SZUCS, Jeno, tudomanyos munkatars

Polish-Hungarian historians' conference. Magy tud 68 no.12: 755-758 D '61.

1. Magyar Tudomanyos Akademia Tortenettudomanyi Intezete, Budepest.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Kalman

Rakoczi's diplomacy. Elet tud 17 no.13:387-39? Ap '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

VOLEJNIK, J.; HOUSTEK, J.; VALACH, V.; BEDA, K.; VYHNALEK, J.

Familial mucoviscidosis-like illness with psychomotor retardation in 3 sisters. Cesk. pediat. 20 no.3:421-424 Mr '65

1. Aus der medizinischen Fakultät der Palacky-Universität, Olomouc; Kinderklinik; Pathologisch-anatomischen Institut; Roentgenologischem Institut und aus der II. Kinderklinik der Paediatrischen Fakultät der Karls-Universität in Prag.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

C.A.

11 H

Cellular metabolism and inflammation. I. Metabolic changes in the liver after allyl formate poisoning. L. Benda, A. Lecker, and F. Rissel (Univ.-Klinik, Vienna). *J. Exptl. Med.* 117, 549-58(1963). Liver slices from normal rats, rats fasting 48 hrs., rats injected with 1 to 20 mg. allyl formate (I) in paraffin oil, 20% EtOH, or Ringer soln., and rats receiving the solvents alone, were studied in Ringer soln. Small doses (1 mg.) of I caused a slight increase in metabolism, while large doses (10-20 mg.) produced rapid inhibition that was delayed if paraffin oil was used as solvent. Intermediate doses (5 mg.) resulted in temporary inhibition and were followed by an increase. The quant. variations depended largely on the substrate; glucose-free NaHCO$_3$-Ringer gave the largest changes. Glucose always ameliorated the reactions. The inhibition of CO$_2$ production was more pronounced than the concomitant O uptake.

J. H. Weisburger

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

CA

Cellular metabolism and inflammation. II. Liver tissue respiration in cases of the so-called serous inflammation. L. Benda, A. Locker, and F. Rissel (I. Med. Univ.-klinik, Vienna, Austria). *Z. ges. exptl. Med.* 117, 570 (1951); cf. *C.A.* 46, 1170h. Phenobarbital (I) (10^{-3} to 10^{-4} M), diphtheria toxin (II), and histamine (0.2 to .5 mg. %) did not affect the respiration of rat and guinea-pig liver slices *in vitro*. Large doses of I (100 to 300 mg./100 g. body wt.) kill rats in 3 to 17 min. Medium doses (10 to 15 mg.) rapidly induce narcosis and sometimes kill rats after 0.5 to 2.5 hrs. Small doses (<10 mg.) cause temporary unconsciousness. Large doses immediately result in an increase of O consumption by liver slices removed from the treated rats. After 30 min. the respiration and CO_2 production are inhibited. With medium doses after 1 to 3 hrs. the respiration and CO_2 evolution are increased concurrently with the production of a serious inflammation in the tissue. With II a similar relationship among respiration, aerobic glycolysis, and serious inflammation was found.

John H. Weisburger

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

[redacted], L.; POKORNY, J.

Prototype of a semiautoma ic clamin line. p. 33.

Vol. 34, no. 3, Mar. 1956
SLAVIC
Prahe, Czechoslovakia

Source: East European Accession List, Library of Congress
Vol. 5, No. 8, August 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

Honda, L.

Mechanization and automation in tile factories. p.112

(Stavivo. Vol. 35, no. 3, Mar. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 7, no. 10, October 1957. Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, L.

Experience in the introduction of photoelectric computers in facing-tile factories. Stavivo 41 no.10:368-359 O '63.

1. Zapadoceske kaolinove zavody, Podbornany.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

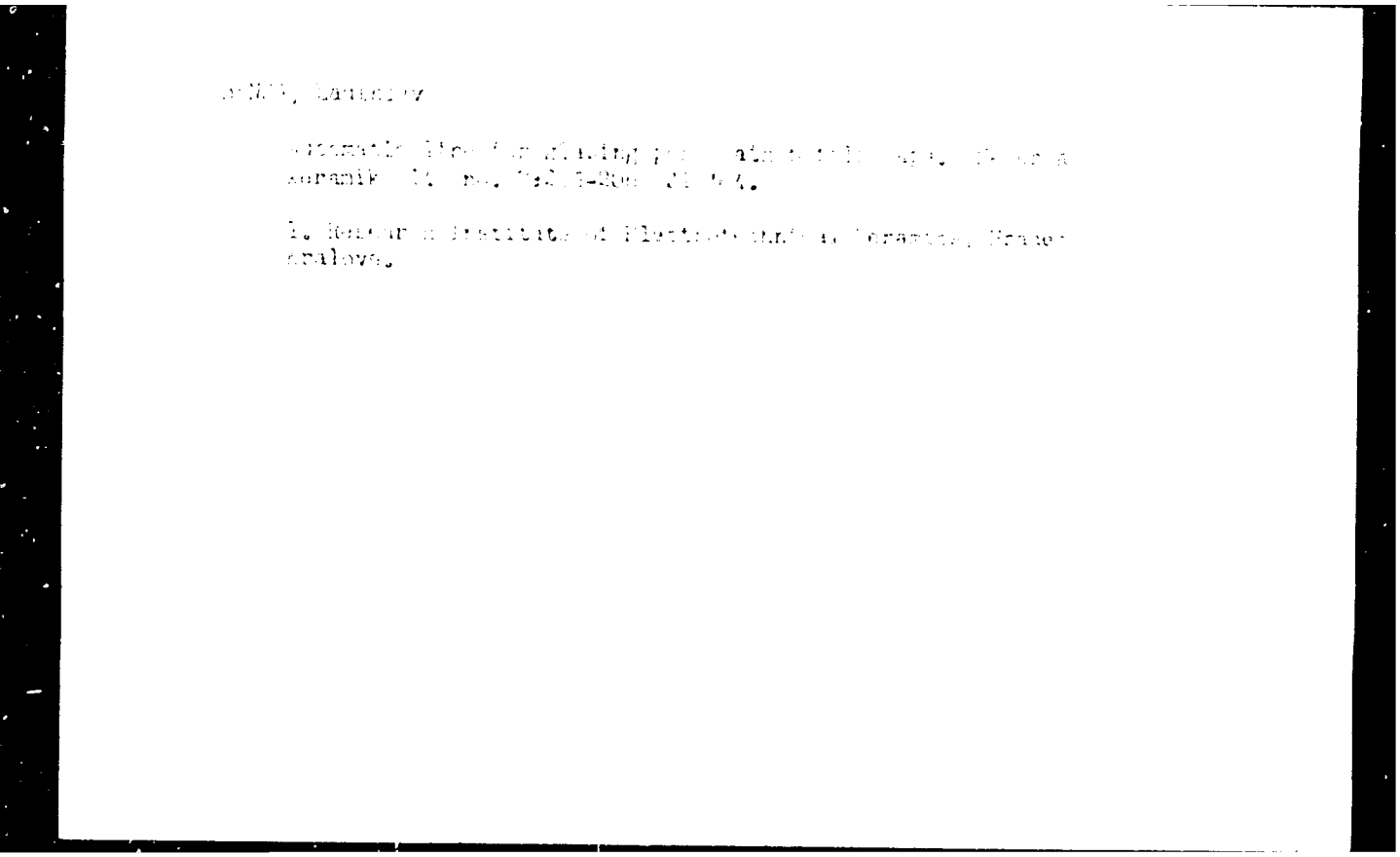
RADL, Zbynek, inz.; BENDA, Ladislav

New mallets and sockets for suspended insulators in Czechoslovakia. Energetika Cz 12 no.9:465-467 S '62.

1. Vzykumny ustav elektrotechnicke keramiky, Hradec Kralove.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7



APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, M.

"Classification of ceramic facing tiles according to colors and their shades. p. 243."

SILIKATY. Praha, Czechoslovakia. Vol. 2, no. 3, 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Oldrich (Czechoslovakia)

Classification of the introduction of [illegible]
5 no.3:60 M '64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, O.

"A new instrument for the measurement of power used in welding."

p. 339 (Strojnoelektrotechnicky Casopis) Vol. 8, no. 5, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

B'NDA, O.

Notes on the definition of a coercive force. p. 255.

ELEKTROTECHNICKY CASOPIS, Bratislava, Czechoslovakia, Vol. 10, No. 4, 1959.

Monthly list of East European Accessions, (EEAI) LC, Vol. 8, No. 10. Oct. 1959.
Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

[illegible], C.

[illegible] in metallurgy. p. 100.

KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet) Budapest, Hungary
Vol. 14, no. 2/3, Feb./Mar. 1959

Monthly list of East European Accessions (EEAI), LC, Vol. [illegible], no. 8, August 1959
Uncla.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, O.

Industrial use of heating oils, p. 254.

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro vyuziti paliv pri Ceskoslovenske akademii ved) Praha, Czechoslovakia, Vol. 39, no. 8, August 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

S/058/61/000/008/001/004
E197/E335

G.7140 (also 1164)

AUTHORS: Benda, Oldrich and Virsík, Félix

TITLE: Dynamics of flux reversal in ferrite toroids with a rectangular hysteresis loop

PERIODICAL: Elektrotechnický časopis, no. 8, 1961, pp. 481 - 496

TEXT: The purpose of the article is the comparison of dynamic characteristics of ferrite toroids, calculated under two different assumptions with actual experiments. The ferrite components under consideration are to be used in digital computers as memory, logic and switching elements. The authors consider a ferrite toroid as a nonlinear electrical element, the dynamic characteristics of which are dependent on the method of causing magnetic reversal and on previous magnetic history. Reference is made to recent literature in which three models were used by various workers to represent experimental results. The authors believe that only two models are needed: in weak fields a model based on the shift of the Bloch walls and in strong fields - the rotation of magnetizing vectors will give

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concordance with experiments. In both cases the dynamic characteristics were obtained from the basic equation of Landau-Lifschitz, assuming that the period of the magnetizing square wave impulses are longer than 9/10 of the time needed for complete magnetic reversal. The basic formula was treated in accordance with both models and the dynamic response derived. The experiments were carried out at the Institute of Technical Physics ČSAV on ferrite $Mn_{0.556}Mg_{0.608}Fe_{1.845}O_4$ the cross-section of the toroid being 0.266 cm^2 and the length 7.37 cm. The equipment used for measurement is the same as described previously by B.H. Zitka. (A generator for square-shaped current pulses - Čs.čas. fys., 1960, v.10, no.3, pp. 230-234 - Ref. 11). The results of the two calculations and that of the measurement are tabulated and the distribution function of the results obtained by measurement and by the two calculations are given in Fig. 9: experimental results - small circles; Curve 1 - Block wall shift; Curve 2 - vector rotation, vertical coordinate-distribution function, horizontal coordinate-relative induction.

Card 2/4

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Z/042/61/000/008/001/004
Dynamics of flux reversal E197/E335

There are 9 figures, 2 tables and 15 references, 8 Soviet-bloc and 7 non-Soviet bloc. The four latest English-language references are: Ref. 2 - E.M. Gyorgy - Modified rotational model of flux reversal. J. Appl. Phys., 1958, XII, 29, No. 12, 1709-1712; Ref. 3 - W.L. Shevel - IBM J., 1959, I; Ref. 4 - E.M. Gyorgy - J. Appl. Phys., 1960, V, 31, No. 5 - Supplement - 110S - 117S; Ref. 13 - R.H. Tancrell, R.E.McMahon - J. Appl. Phys., 1960, V, 31, No. 5, 763-771.

ASSOCIATION: Katedra teoretickej a experimentálnej elektrotechniky Slovenskej vysokej školy technickej (Department of Theoretical and Experimental Electrical Engineering, Slovak Technical University)

SUBMITTED: April 20, 1961

Card 3/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, O.

Contribution to the solution of a case of transient phenomena.
El tech cas 14 no.1:38-42 '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, O.

"Introduction to the theory of electrotechnics" by K.Kupfmuller. Reviewed by O.Benda. El tech cas 14 no.1:51-52 '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

PUNCOCHAR, Z.; DEDEK, Vlad., inz.; KEGLIK, V., inz.; KRUMNIKL, F.; TEINDL, J.; BENDA, O.

Information on metallurgy. Hut listy 16 no.7:523-530 Jl '61.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

PUNCOCHAR, Z., inz.; BENDA, O.; CHVOJKA, Jan, inz.; CHVATAL, V.; HREBK, A.; KRUMNIKL, F.; HOREJS, S., inz.; TEINDL, J.; SESTAK, B.

Information on metallurgy. Hut listy 16 no.8:596-605 Ag '61.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

CERNIK, Oldrich; GASEK, inz.; STRIBRNY, A.; NOVOTNY, V.; ROUCKA, inz.; JERIE, dr.; BENDA, O.; HINKE, dr.; HOMOLA, F., inz.; SPETL, doc., inz., dr.; ZAK, inz.; ZEMAN, inz.; PAVLICEK, Z., inz.; VESELY, B., inz.; KUCERA, Fl., inz.; VALD, V.

Main trends and goals in increasing the utilization of fuels and energy in the national economy in long range planning up to 1970. Energetika Cz 12 no.12:Suppl.:Energetika 11 no.12:1-14 '62.

1. Ministr paliv a energetiky (for Cernik).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Oldrich; SVARC, Jiri, ins.

Development of specific consumption of electric power in metallurgic works and their heating and power plants. Energetika Cz 12 no.12:631-633 D '62.

1. Ministerstvo huti a rudnych dolu, Praha.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

PODLESAKOVA, B., inz.; BENDA, O.; GROHA, G., inz.; JILEK, inz.; NANADAL, K., inz.

Conference on the results of the International Symposium on Rationalization of Electric Power Consumption in Warsaw. Energetika CzSuppl. 13 no.7:1-11 '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, O.

Analysis of the single-cycle sliding recorder operation with regard to the ferromagnetic nonlinearity. El tech cas 13 no.10: 631-634 '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Oldrich, doc., ing., CSc.

Phenomenological theory of ferrite magnetic reversal with rectangular hysteresis loop. El tech cas 14 no.8:453-463 '63.

1. Katedra teoretickej a experimentalnej elektrotechniky, Slovenska vysoka skola technicka, Mytna 32/E, Bratislava.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

PUNCOCHARM Z., inz.; VESELY, J., inz.; KEPKA, M., inz.; KECLIK, V., inz.; HRBEK, A.; KRUMNIKL, F., inz.; HENDA, O.

Information. Hut listy 18 no.8:597-605 Ag '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, O.

"Electric measurement instruments and equipment" by A. Palm.
Reviewed by O. Benda. El tech cas 15 no.1:61-62 '64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Oldrich

Classification of standards. Energetika Cz 14 no. 4: 181-182 Ap '64.

1. Chief power engineer, Ministry of Metallurgical Industry and Ore Mines.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Oldrich, inz., doc., CSc.

Will electronics help power engineering? Tech praca 16 no. 1: 2-7 Ja '64.

1. Slovenska vysoka skola technicka, Bratislava.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

L 3765-66 EWT(m)/EWP(t)/EWP(b) JD

ACC NR: AP5027862 CZ/0034/65/000/001/0018/0025

AUTHOR: Benda, Oldrich

TITLE: Development of gas balances in metallurgical plants

SOURCE: Hutnicke listy, no. 1, 1965, 18-25

TOPIC TAGS: blast furnace, coke, gas

ABSTRACT: The effect of decreasing coke rates in the production of blast furnaces causes not only a lower production of the furnace gas for a given weight of metal, but also increases gas consumption in hot blast stoves. The reduced amount of blast furnace gas affects the gas balance of the entire metallurgical plant. This gas can be replaced by liquid fuels only in certain applications. Problems arising from the reduced amounts of excess gas are discussed. Orig. art. has: 8 tables, 4 graphs.

ASSOCIATION: Ministerstvo hutniho prumysla a rudnych dolu (Ministry of Metallurgy and Mining)

SUBMITTED: 00 ENCL: 00 SUB CODE: IE

NR REF SOV: 001 OTHER: 005 JPRS

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

L 20276-66 EWT(1) IJP(c)
ACC NR: AP6010320

SOURCE CODE: CZ/0042/65/000/003/0125/0144

AUTHOR: Bonda, Oldrich (Professor; Graduate engineer; Candidate of sciences)

ORG: Department of Theoretical and Experimental Electrical Engineering, Slovak Institute of Technology, Bratislava

TITLE: Static magnetization characteristics of materials with a rectangular hysteresis loop

SOURCE: Elektrotechnicky casopis, no. 3, 1965, 125-144

TOPIC TAGS: nonhomogeneous magnetic field, magnetic field, magnetization, magnetic hysteresis, hysteresis loop, magnetic domain structure, statistic distribution, remagnetization

ABSTRACT: The paper presents an analytical derivation of static magnetization characteristics for toroidal cores of materials with a pronounced rectangular hysteresis loop. It proceeds from a model of remagnetization based on irreversible domain π-wall displacements, supposing a statistical distribution of threshold magnetic field strengths in the investigated system of

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domains. The influence of the nonhomogeneity of the magnetic field in the toroid is considered. A detailed analysis is made of a simplified form of the distribution function $G(\xi)$ replaced in a certain interval of threshold magnetic field strengths by a constant. It follows from the solution that the function $G(\xi)$ can be regarded as the basic characteristic of materials with a rectangular hysteresis loop. The model permits observation of minority hysteresis loops and stabilization of asymmetrical magnetization cycles. This paper was presented by M. Salamon. The author thanks Prof. Dr. Grad-Engr. M. Salamon for the valuable discussions and the assistants, Grad.-Engr. J. Slama and Cand. of Engr. L. Sklars for the carrying-out of the measurements. Orig. art. has: 9 figures and 58 formulas.
[JPRS]

SUB CODE: 20 / SUBM DATE: 05Oct64 / ORIG REF: 007 / OTH REF: 002
SOV REF: 002

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Oldrich, [illegible]. CSc.; HORVATH, P.

Contribution to the impulse magnetization of thin ferromagnetic layers. El tech cas 16 no.3:187-189 '65.

1. Submitted November 25, 1964.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

STAREK, Richard, inz.; GOTTSTEIN, Rudolf; BENDA, Otokar

An apparatus for making enlarged diagrams of the tensile testing machine operation. Normalizace 11 no.4:103-107 Ap '63.

1. Statni vyzkumny ustav materialu a technologie, Praha (for Starek). 2. Zavody Viteznho unora, Hradec Kralove (for Gottstein and Benda).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BERDA, O.

Examination of blast furnace operation in blowing liquid fuel into hearth. Hut listy 17 no.2:149-151 F '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BEIDA, P.; RAJTMAJER, J.; OCASEK, M.

Forging on crank presses. p. 210.

STROJIRENSKA VYROBA. (Ministerstvo teskeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia. Vol. 7, no. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

Z/031/63/011/004/002/002
E073/E335

AUTHORS: Benda, Petr, Engineer, Lüftner, Antonín and Kajer, Stanislav

TITLE: Influence of preforging on the quality of forgings of blades for aircraft propellers

PERIODICAL: Strojírenská výroba, no. 4, 1963, 200 - 203

TEXT: Experience gained in the manufacture of propeller blades by the V.I. Lenin Works, Pilsen, is described. The composition of the alloy must conform with the specification CSN 42 4201, i.e. have the following composition (%): Cu 3.8 - 4.8, Mn 0.4 - 0.8, Mg 0.4 - 0.8, rest Al, the maximum permissible content of admixtures being Fe 0.7, Ni 0.2, Fe + Ni 0.7, Si 0.7, Zn 0.3, others 0.1; total 1.8%. After hardening, the minimum mechanical properties in the longitudinal direction must be σ_{Pt} = 38 kg/mm^2, σ_{Kt} = 24 kg/mm^2, δ_5 = 13% . As starting material extruded circular or square cross-section rods of various dimensions were used. On the basis of the experiments, a more simple preforging technology is recommended for smaller propeller

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blades. In accordance with this technology, an extruded bar 130 x 57 mm, 1100 mm long, was cut by a saw into two halves, with dimensions as shown in Fig. 8. The bar was then subjected to upsetting along approximately three-fifths of its length to reduct the height to 57 mm, as shown in Fig. 12, and forged in a die without reheating. The preforged blade was placed into the die with the original surface, produced by sawing, in a sideways position; this improved the texture in the transverse direction and the depth of local coarsened structure was reduced to a minimum. There are 13 figures.

ASSOCIATION: Závody V.I. Lenina, n.p. Plzeň
(V.I. Lenin Works, n.p. Pilsen)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Petr, ing.; VALKOVA, Olga, inz.; KRESL, Milos

Testing the method of plant and seedling top dressing in forest nurseries. Les cas 10 no.10:869-878 O '64.

1. Institute of Scientific Management, Prague.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, DR.

PATOCKA, Dr; BENDA, Dr (za spoluprace J.Starky)

Listeria inflections in newborn infants. Cesk. hyg. epidem. mikrob. 2 no.5:325-340 Oct. 53.

1. Z ustavu pro lekarskou mikrobiologii a imunologii lekarske fakulty.
(LISTERIA, infections, in newborn)
(INFANT, NEWBORN, diseases, listeria infect.)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; HEYBERGER, K.

Isolation of Pasteurella tularensis from the blood of blood-filled ticks Ixodes ricinus L. Cheleh biol 2 no.6:380-384 D '53. (MLAL 3:7)

1. Voyenno-Meditsinskaya Akademiya, Cradets Kralove.
(TICKS,
*Ixodes ricinus, isolation of Pasteurella tularensis from blood)
(PASTEURELLA TULARENSIS,
*isolation from blood of Ixodes ricinus)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, RUDOLF

VACEK, Radim, MUDr; BENDA, Rudolf, MUDr

Congenital listerellosis in newborn; so-called pseudotuberculosis or pseudodiphtheria according to older authors. Pediat. listy 9 no.2:107-116 Ap '54.

1. Z I. pathologicko-anatomickeho ustavu KU v Praze, prednosta prof. Dr H.Sikl. 2. Z ustavu pro mikrobiologii a imunologii KU v Praze, prednosta prof. Dr F.Patocka.

(LISTERIA, infections,
*in newborn inf., congen.)
(INFANT, NEWBORN, diseases,
*listerellosis, congen.)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; REHN, F.

Complement fixation in detection of antigen in acute stage of infection. Cesk. epidem. mikrob. imun. 6 no.5:345-348 Sept 57.

1. Katedra mikrobiologie VLA Jana Ev. Purkyne, Hradec Kralove.
(COMPLEMENT,
fixation in detection of antigens in acute stage of infect. (Cz))

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, Rudolf (Borislavka 4)

Experimental transmission of the Czechoslovak tick-borne encephalitis to goats from infected sucking females of the tick Ixodes ricinus L. Cesk. epidem. mikrob. imun. 7 no.1:1-5 Jan 58.

1. Katedra mikrobiologie Vojenske lekarske akademie J. Ev. P. v Hradci Kralove.

(ENCEPHALITIS, EPIDEMIC, exper.
transm. of Czech. tick-borne virus to goats from infected sucking females of tick Ixodes ricinus (Cz))

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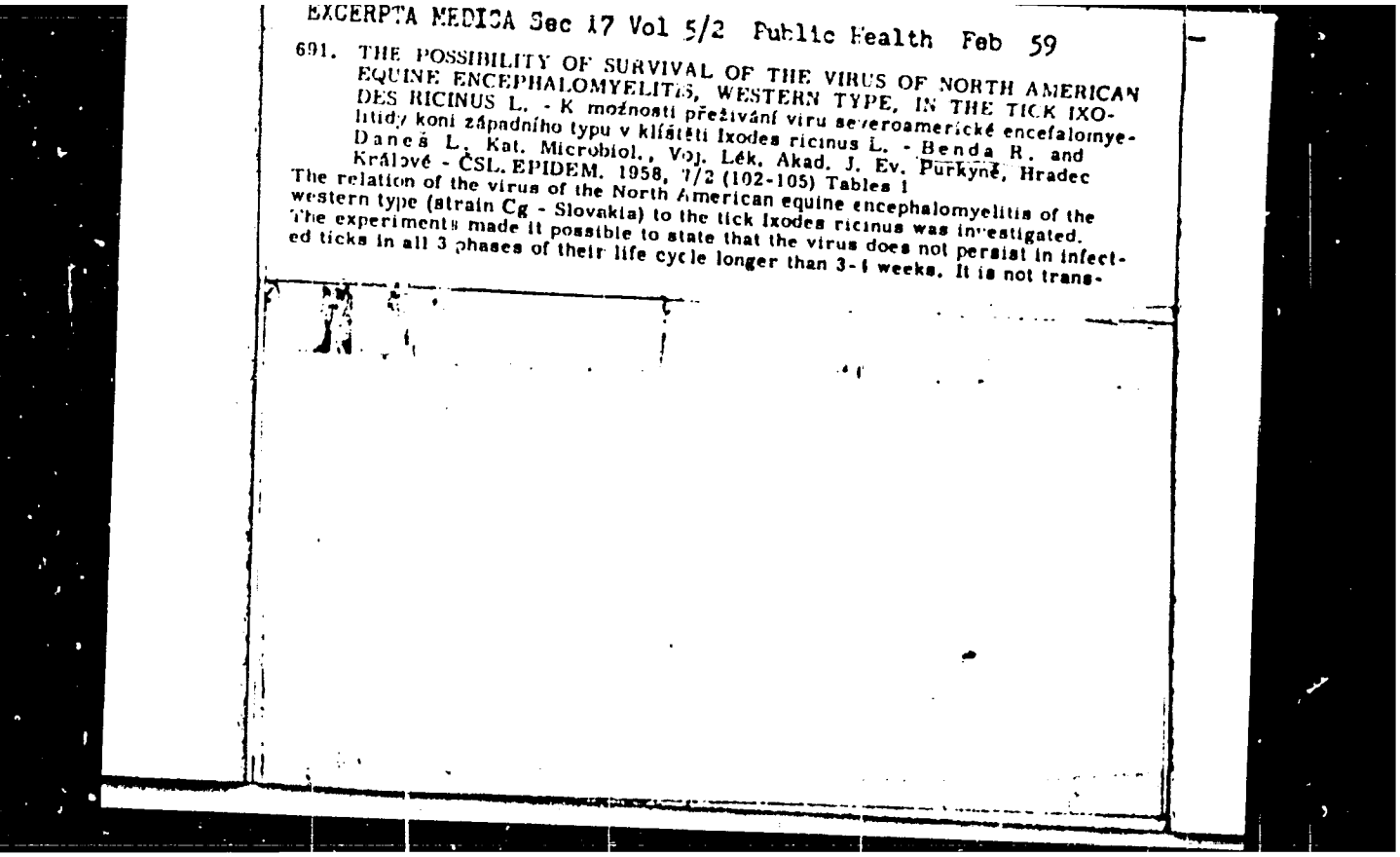

EXCERPTA MEDICA Sec 17 Vol 5/2 Public Health Feb 59

691. THE POSSIBILITY OF SURVIVAL OF THE VIRUS OF NORTH AMERICAN EQUINE ENCEPHALOMYELITIS, WESTERN TYPE, IN THE TICK IXODES RICINUS L. - K možnosti přežívání viru severoamerické encefalomyelitidy koní západního typu v klíšťeti Ixodes ricinus L. - Benda R. and Daneš L., Kat. Microbiol., Voj. Lék. Akad. J. Ev. Purkyně, Hradec Králové - ČSL. EPIDEM. 1958, 7/2 (102-105) Tables 1

The relation of the virus of the North American equine encephalomyelitis of the western type (strain Cg - Slovakia) to the tick Ixodes ricinus was investigated. The experiments made it possible to state that the virus does not persist in infected ticks in all 3 phases of their life cycle longer than 3-4 weeks. It is not trans-

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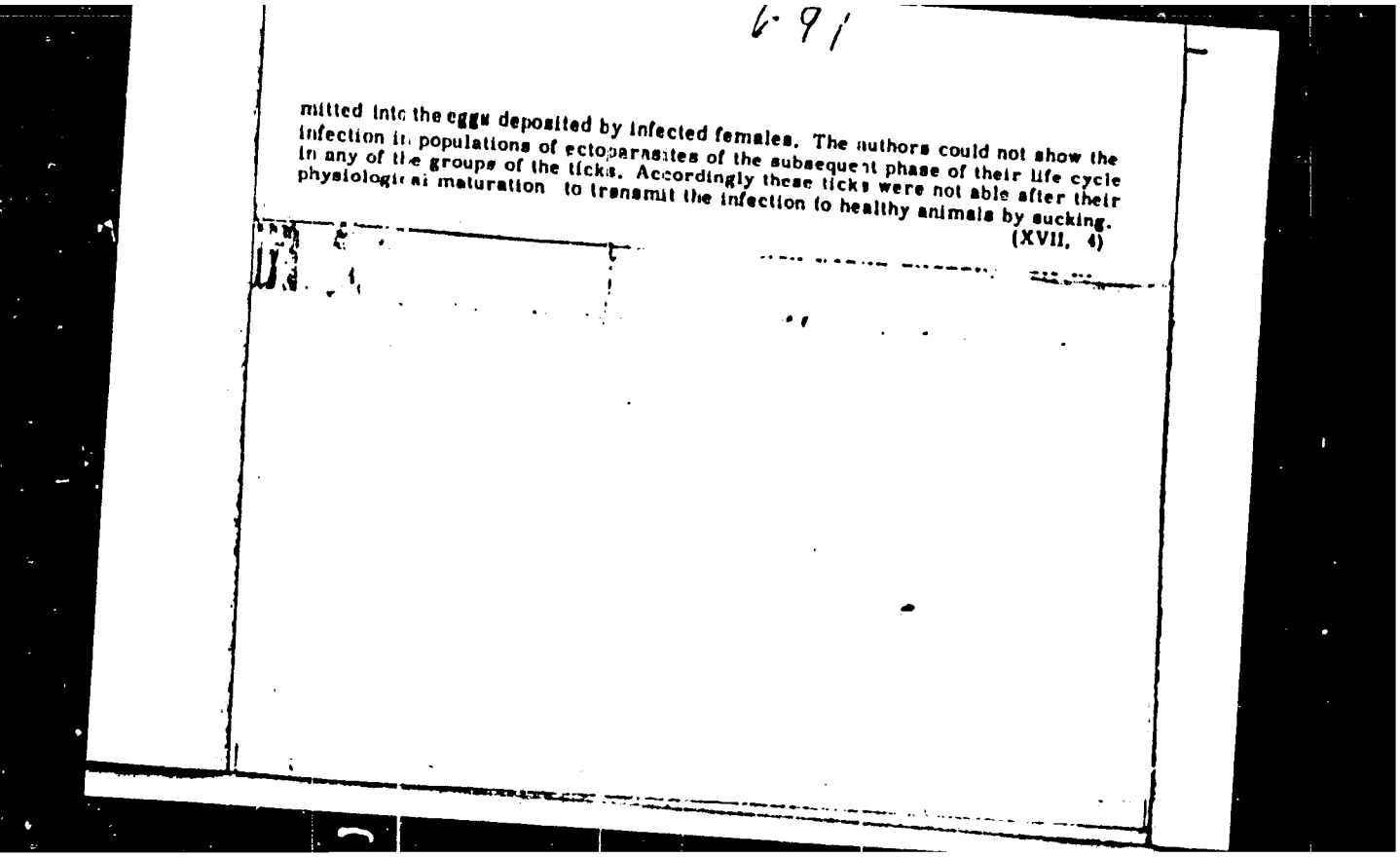

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mitted into the eggs deposited by infected females. The authors could not show the infection in populations of ectoparasites of the subsequent phase of their life cycle in any of the groups of the ticks. Accordingly these ticks were not able after their physiological maturation to transmit the infection to healthy animals by sucking. (XVII, 4)

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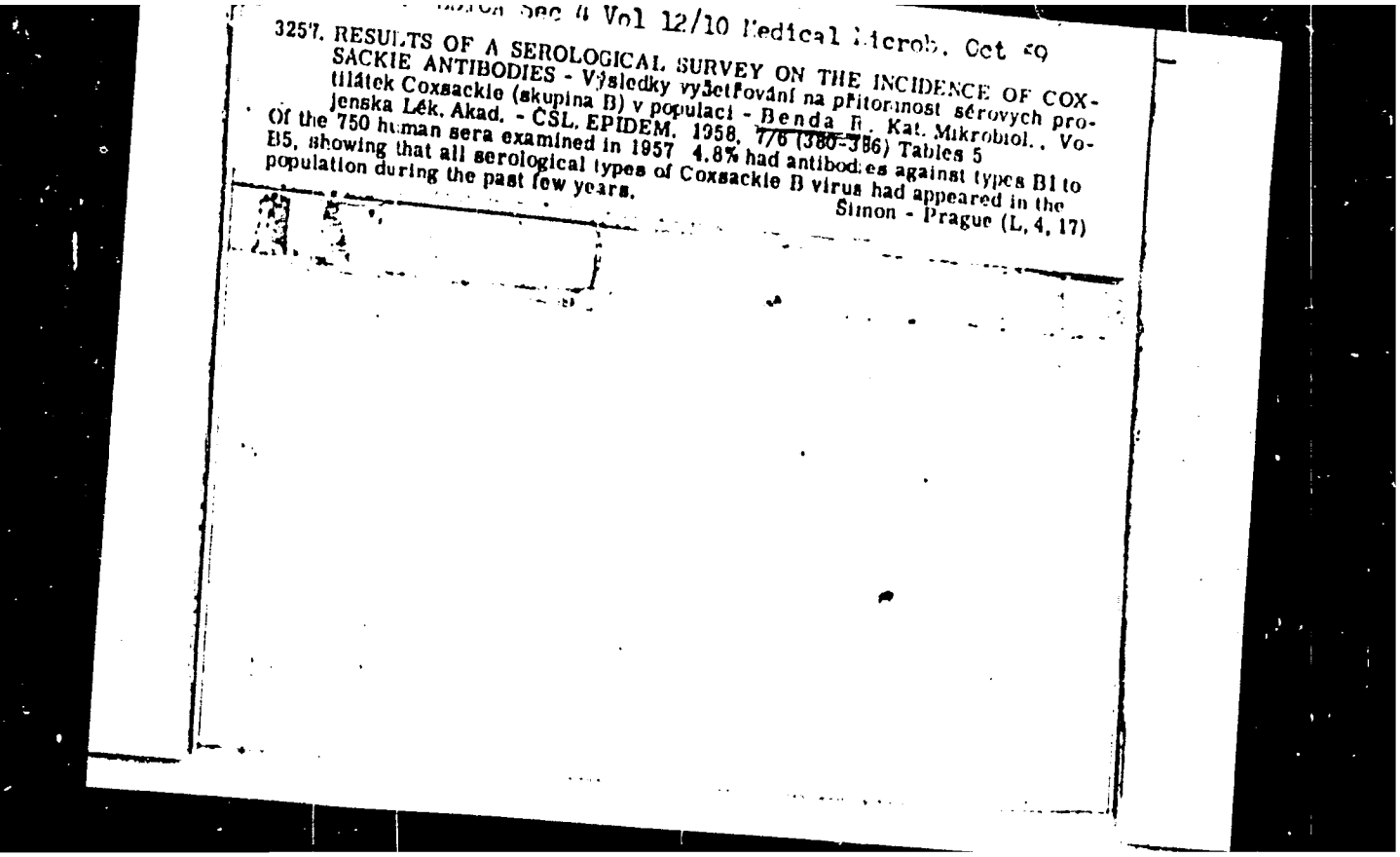

Sec A Vol 12/10 Medical Microb. Oct 59

3257. RESULTS OF A SEROLOGICAL SURVEY ON THE INCIDENCE OF COXSACKIE ANTIBODIES - Výsledky vyšetřování na přítomnost sérových protilátek Coxsackie (skupina B) v populaci - Benda R., Kat. Mikrobiol., Vojenska Lék. Akad. - CSL. EPIDEM. 1958, 7/6 (380-386) Tables 5

Of the 750 human sera examined in 1957 4.8% had antibodies against types B1 to B5, showing that all serological types of Coxsackie B virus had appeared in the population during the past few years.

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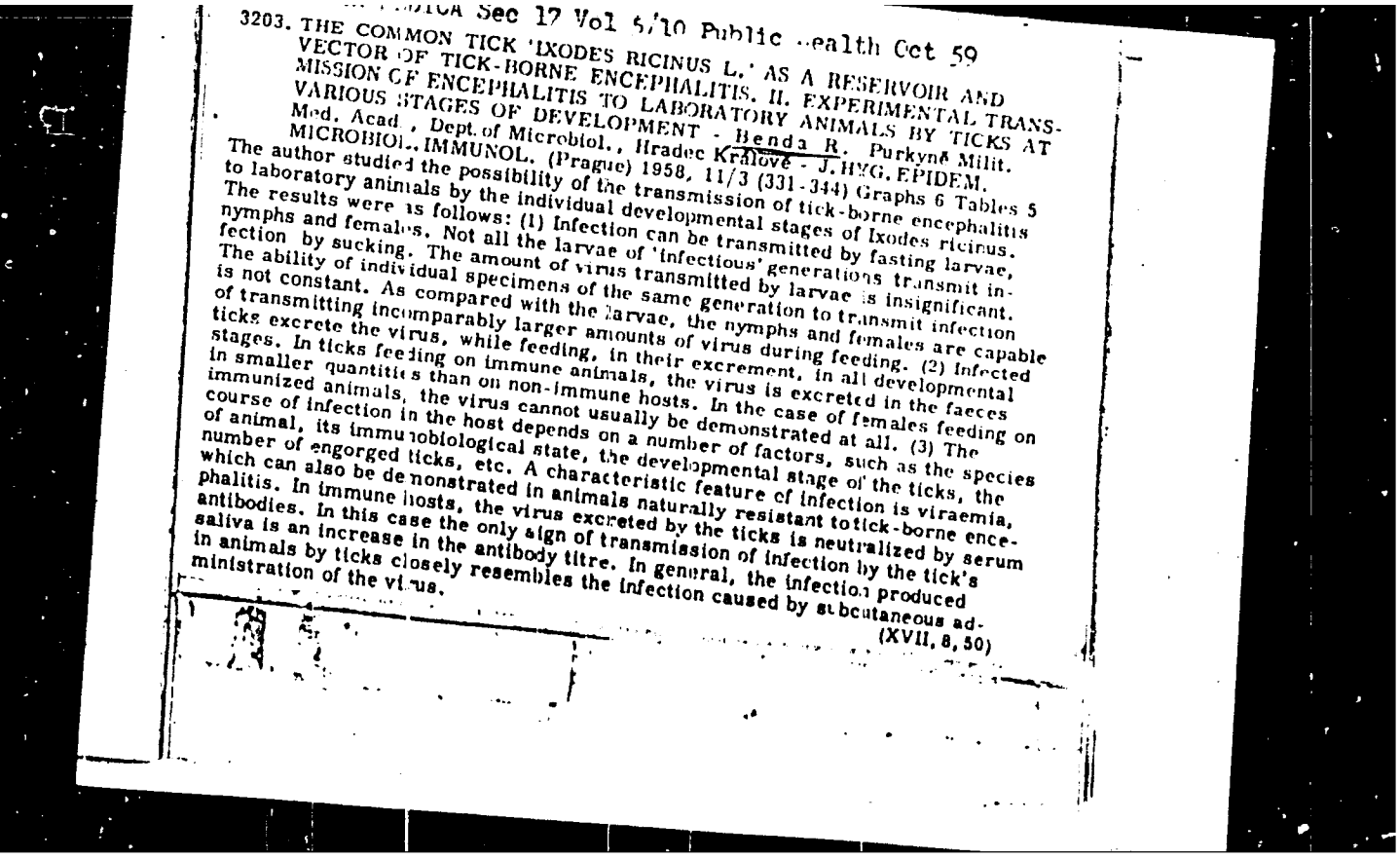

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3203. THE COMMON TICK 'IXODES RICINUS L.' AS A RESERVOIR AND VECTOR OF TICK-BORNE ENCEPHALITIS. II. EXPERIMENTAL TRANSMISSION OF ENCEPHALITIS TO LABORATORY ANIMALS BY TICKS AT VARIOUS STAGES OF DEVELOPMENT - Benda R. Purkyně Milit. Med. Acad., Dept. of Microbiol., Hradec Králové - J. HYG. EPIDEM. MICROBIOL. IMMUNOL. (Prague) 1958, 11/3 (331-344) Graphs 6 Tables 5

The author studied the possibility of the transmission of tick-borne encephalitis to laboratory animals by the individual developmental stages of Ixodes ricinus. The results were as follows: (1) Infection can be transmitted by fasting larvae, nymphs and females. Not all the larvae of 'infectious' generations transmit infection by sucking. The amount of virus transmitted by larvae is insignificant. The ability of individual specimens of the same generation to transmit infection is not constant. As compared with the larvae, the nymphs and females are capable of transmitting incomparably larger amounts of virus during feeding. (2) Infected ticks excrete the virus, while feeding, in their excrement, in all developmental stages. In ticks feeding on immune animals, the virus is excreted in the faeces in smaller quantities than on non-immune hosts. In the case of females feeding on immunized animals, the virus cannot usually be demonstrated at all. (3) The course of infection in the host depends on a number of factors, such as the species of animal, its immunobiological state, the developmental stage of the ticks, the number of engorged ticks, etc. A characteristic feature of infection is viraemia, which can also be demonstrated in animals naturally resistant to tick-borne encephalitis. In immune hosts, the virus excreted by the ticks is neutralized by serum antibodies. In this case the only sign of transmission of infection by the tick's saliva is an increase in the antibody titre. In general, the infection produced in animals by ticks closely resembles the infection caused by subcutaneous administration of the virus.

(XVII, 8, 50)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; ONDRACEK, J.

Aseptic meningitis induced by ECHO viruses (type 9) in the Hradec Kralove region during 1957. Cesk. epidem. mikrob. imun. 8 no.5: 328-341 Sept 59.

1. Katedra epidemiologie Vojenskeho lekarskeho vyzkumneho a doskolovaciho ustavu J. Ev. Purkyne a infekcni klinika lekarske fakulty Karlovy university v Hradci Kralove.
(MENINGITIS, virol.) (VIRUS DISEASES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

ONDRACHEK, Ya.; KRAL', L.; BENDA, R.; BESHETS, M.; KUZHEKOVA, L.

Outbreaks of aseptic forms of meningitis induced by ECHO virus (type 9) in child centers. Sov.med. 23 no.12:81-86 D '59. (MIRA 13:4)

1. Iz kafedry infektsionnykh bolezney (rukovoditel' - dotsent Ya. Ondrachek) i iz kafedry epidemiologii (rukovoditel' - dotsent K. Makovichka) meditsinskogo fakul'teta Karlova universiteta, Gradets-Kralove, Chekhoslovakiya.
(MENINGITIS virol.)
(VIRUS DISEASES in inf. & child.)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

DANES, L.; BINDA, R.

Study of the possibility of preparing a vaccine against tick-borne encephalitis, using tissue culture methods. Acta virol. Engl. Ed., Praha 4 no.1:25-36 Ja '60

1. J. E. Purkyne Military Medical Research and Post-graduate Institute, Prague.
(ENCEPHALITIS EPIDEMIC immunology)
(TISSUE CULTURE)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA,R.; DANES,L.; FUCHSOVA,M.

The effect of Cortisone on the course of tick-borne encephalitis infection in cynomologus monkeys. Acta virol. 4 no.3:160-164 My '60.

1. J.E.Purkyne Military Institute of Medical research and Post-graduate Training, Chair of Epidemiology, Hradec Kralove, and the Central Military Hospital, Department of Pathology and Anatomy, Prague.

(ENCEPHALITIS, EPIDEMIC, experimental)
(CORTISONE, pharmacology)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; DAMES, L.

Study of the possibility of preparing a vaccine against tick-borne encephalitis, using tissue culture methods. III. Experimental principles for safety tests of virus inactivation in formolized liquids. Acta virol.Engl.Ed.Praha 4 no.5:296-307 S'60.

1. J.E. Purkyne Military Medical Research and Post-graduate Institute, Praha.

(ENCEPHALITIS EPIDEMIC immunol)
(VACCINES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

DANES, L.; BENDA, R.

Study of the possibility of preparing a vaccine against tick-borne encephalitis, using tissue culture methods. IV. Immunisation of humans with test samples of inactivated vaccine. Acta virol.Engl. Ed.Praha 4 no.6:335-340 N'60.

1. J.E. Purkyne Military Medical Research and Post-graduate Institute, Prague.

(ENCEPHALITIS, EPIDEMIC immunol)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

HENDA, Rudolf; DANES, Ludek; FUCHSOVA, Mirja

Sensitivity of monkeys Mac. cynomolgus and Mac rhesus to tick encephalitis virus. Cesk.epidem.mikrob.imun. 9 no.1:1-11 Ja '60.

1. Katedra epidemiologie Vojenskeho lekarskeho vyzkumneho a doskolovaciho ustavu J. Ev. Purkyne, Patologickoanatomicke oddeleni Ustredni vojenske nemocnice v Praze.
(ENCEPHALITIS EPIDEMIC exper.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; DANES, L.

Study of the possibility of preparing a vaccine against tick-borne Encephalitis, using tissue culture methods. V. Experimental data for the evaluation of the efficiency of formol treated vaccines in Laboratory animals. Acta virol.Engl.Ed.Praha 5 no.1:37-49 Ja '61.

1. J.E.Purkyne Military Medical Research and Post-graduate Institute, Prague.
(ENCEPHALITIS EPIDEMIC immunol)
(VACCINATION)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

DANES, L.; LIBICH, J.; BENDA, R.

Experimental air-borne infection of mice with tick-borne encephalitis virus. Acta virol. (Praha)[Eng]6 no.1:37-45 Ja '62.

1. J. E. Purkyne Military Medical Research and Post-Graduate Institute, Praha.

(ENCEPHALITIS EPIDEMIC exper)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; FUCHSOVA, M.; DANES, I.

Experimental air-borne infection of monkeys with tick-borne encephalitis. Acta virol. (Praha)[Eng]6 no.1:46-52 Ja '62.

1. Chair of Epidemiology, J. E. Purkyne Military Medical Research and Post-Graduate Institute, Praha, and Department of Morbid Anatomy, Central Military Hospital, Praha.

(ENCEPHALITIS EPIDEMIC exper)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000200010001-7

BENDA, R.; CINATL, J.

Multiplication of lymphocytic choriomeningitis virus in bottle cell cultures. Experimental data for the preparation of highly infectious fluids. Acta virol. (Praha)[Eng]6 no.2:159-164 Mr '62.

1. Military Institute of Hygiene, Epidemiology and Microbiology, Praha, Czechoslovakia.

(LYMPHOCYTIC CHORIOMENINGITIS virol)

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